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Virtual Science Museum

Radio



This is a U.S. Army transceiver model BC-312-N, made by Farnsworth Television and Radio Corporation. It uses valves throughout and covers the short wave bands.

Click the image for a bigger picture.



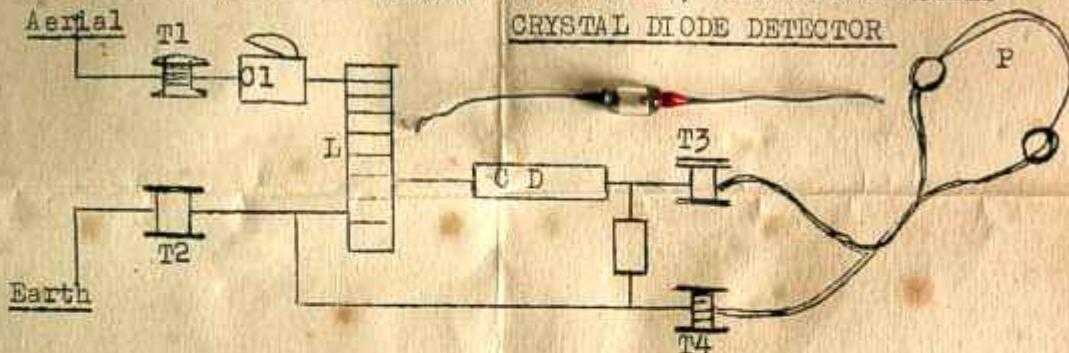
This is a nicely made plug-in tuning coil from an early radio receiver. On the label is printed, 'De Forest 300 Pat 141344 What are the wild waves saying'. Lee de Forest invented the Audion triode in 1907.



This is a rather nice little crystal set with a germanium crystal and cat's whisker.

The crystal is inside the glass tube. The handle adjusts the cat's whisker, which is a piece of wire, sprung against the crystal. With careful adjustment, a 'sweet spot' can be found. The crystal then acts as a diode detector, demodulating the radio signal.

HOW TO CONSTRUCT A MODERN CRYSTAL SET, WITH THE ENCLOSED
CRYSTAL DIODE DETECTOR



COIL CONSTRUCTION

On a former $1\frac{1}{2}$ " diam x $4\frac{1}{2}$ " long, wind 150 turns of 26 SWG enamelled copper wire, tapped at 10, 25, 30, 40, and 45 turns from the lower end

- Always use a good Aerial & Earth.
- Adjust coil tapping for best result.
- Use H.R. (2,000 Ohm) Headphones.

PARTS LIST

C.1.	.0005 Variable Cond.
C.2.	.005 Mfd Condenser
C/D.	Crystal Diode.
T1,2,3,4.	Terminals.
P.	H.R. Headphones
L.	Coil, as described.

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